

Provisions for assessment of existing structures in the second-generation concrete Eurocode

Craig Cicco examines ways in which the second-generation of Eurocode 2 will facilitate the assessment of existing concrete-framed structures.

EN 1992-1-1 (2004) (referred to as EN 1992-1) includes additional provisions that enable it to be used for assessment of existing structures. This article outlines some of these provisions, which are likely to be of assistance when using Eurocode 2 to assess concrete-framed structures. These include:

- determining characteristic material properties for assessment;
- adjusting design loads or factors where testing is used to determine material properties;
- determining values of deterioration;
- load lifting bond and anchorage lengths of reinforcement;
- dealing with existing structures' capacity to the current situation;
- using gross cross-sections for assessment of their resistance.

Material properties

EN 1992-1-1 (2004) requires characteristic values of material properties to assess the existing structure. Annex E provides guidance for such values to either be taken as-is for assessment, or otherwise based on **EN 1992-1-1 (2004)** to determine their fully characteristic concrete strength from testing. It provides a range of factors to adjust to determine f_{ck} from f_{cm} , making some provision for situations where testing cannot be completed at the region being assessed. Additional

information is provided in the standard to enable characteristic values of steel strength or reinforcement to be determined from testing should steel grades used in the structure not be available from national authorities.

The UK National Annex committee is presently reviewing this factor for determining f_{ck} from f_{cm} . It may require some adjustments to the characteristic values to assess agreement with values obtained from **EN 1992-1-1 (2004)** and the UK National Annex, taking into account the ability to adjust design factors for partial to Annex A of the new standard. It may also consider different methods of determining f_{ck} from f_{cm} where gross concrete cross-sections and the region being assessed, such as using the results of laboratory tests, have captured inter-arrival zones, along with relevant provisions in **EN 1992-1-1 (2004)**.

Partial material factors

Annex A of the new standard provides new tables for partial material factors to be applied based on material test results from the structure. This should generally reduce the value of these factors, when a low coefficient of variation of material strength is obtained from testing, which is beneficial for assessed members

generally. The standard permits test data available from records to also be used where suitable and appropriate.

Deterioration

Previous generations of Eurocode used to not factor in variability in test. The spirit of the new standard is that all values obtained will deteriorate, but in assessing existing structures, it does not adjust previous results with its assumptions in assessment is likely to affect the properties of the test.

Plain bars

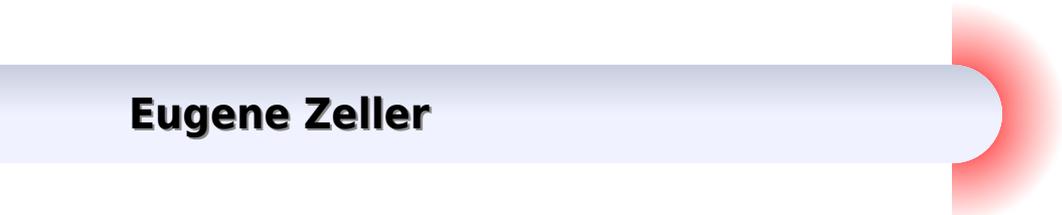
Plain bars were not covered in **EN 1992-1-1 (2004)**. The standard therefore refers to the Eurocode annex detailing reinforcement. The provisions are based on a new extended-modulus steel type, one that was developed during the drafting of the standard (Pulsawat et al.). The provisions also cover the variation of load resulting from variable steel area.

Previous editions of standard that do suggest that conservative values of ultimate lengths could be used using these provisions in certain circumstances. Other established methods of assessing the bond of plain bars are available in the UK, including those listed by National Highway (2004). These may more closely with British provisions in **EN**



Concrete Structures Condition Assessment Guidelines

Eugene Zeller



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Life-Cycle Civil Engineering: Innovation, Theory and Practice Airong Chen, Xin Ruan, Dan M. Frangopol, 2021-02-26 Life Cycle Civil Engineering Innovation Theory and Practice contains the lectures and papers presented at IALCCE2020 the Seventh International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life cycle of civil infrastructure systems including students researchers engineers and practitioners from all areas of engineering and industry **Overview of Industry Guidance on Concrete Condition Assessment and Concrete Repair for Use Prior to Coating**, 2000 This Special Publication SP introduces a brief overview of concrete repair guidance offered by the American Concrete Institute ACI International the International Concrete Repair Institute ICRI the American Concrete Pavement Association ACPA the Aberdeen Group the Portland Cement Association PCA and work by authors considered experts in the field of concrete repair The publication is divided into two parts Part I **NEHRP Commentary on the Guidelines for the Seismic Rehabilitation of Buildings** Eugene Zeller, 2000-06 This document from the National Earthquake Hazards Reduction Program NEHRP was prepared for the Building Seismic Safety Council BSSC with funding from the Federal Emergency Management Agency FEMA It provides commentary on the NEHRP Guidelines for the Seismic Rehabilitation of Buildings It contains systematic guidance enabling design professionals to formulate effective reliable rehabilitation approaches that will limit the expected earthquake damage to a specified range for a specified level of ground shaking This kind of guidance applicable to all types of existing buildings in all parts of the country has never existed before Illustrated **Selected Proceedings of the 2nd International Engineering Research Symposium; IERS 2024; 14 Aug; Colombo, Sri Lanka** T. Nilanthi Fernando, Manjula Siriwardhana, Ranjith Dissanayake, Meththika Vithanage, Jayathu G. Samarawickrama, Pradeep Gajanayake, 2025-03-03 This book presents selected peer reviewed articles from the 2nd International Engineering Research Symposium IERS 2024 held at Colombo in Sri Lanka under the theme of Engineering Innovations for Economic Transformation It highlights the latest advancements in engineering research innovations and technological principles aimed at driving economic changes and improvements within society and the industry IERS2024 covers the areas of Agricultural Engineering Chemical Engineering Civil Engineering Computer Science Engineering Electrical Engineering Electronics Telecommunication Engineering Mechanical Mechatronics Engineering Materials Science Engineering Manufacturing Process Engineering and other Engineering discipline relevant to the theme of IERS 2024 **Ninth International**

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Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures Mourad M. Bakhoun, 2010 *ACI Manual of Concrete Practice* American Concrete Institute, 2002 Guideline for Structural Condition Assessment of Existing Buildings American Society of Civil Engineers, Structural Engineering Institute, 2000-01 Changing economic conditions concern for historic preservation emphasis on fully utilizing conveniently located structures space shortages and increasing cost of materials and products used in the construction of new buildings have resulted in a need to evaluate and more fully utilize the existing building inventory To this end this revision of the ASCE Standard Guideline for Structural Condition Assessment of Existing Buildings a replacement of ASCE 11 90 provides the design community with guidelines for assessing the structural conditions of existing buildings constructed of combinations of material including concrete masonry metals and wood It consists of an overview of preliminary and detailed assessment procedures of materials properties and test methods and of evaluation procedures for various physical conditions of the structure This information has been compiled and subjected to a consensus review and approved by the ASCE Standards Committee on Structural Condition to provide a much needed resource standards on building condition assessment for selected materials and for other areas related to the structural performance of buildings Professional engineers building owners and regulatory officials will find this Standard Guideline invaluable

Failure, Distress and Repair of Concrete Structures N. Delatte, 2009-11-24 Many concrete structures around the world have reached or exceeded their design life and are showing signs of deteriorating Any concrete structure which has deteriorated or has sustained damage is a potential hazard *Non-destructive Testing of Wisconsin Highway Bridges* Alireza Ghorbanpoor, Neal Benish, 2005 **Guide for Evaluation of Concrete Structures Prior to Rehabilitation** ACI Committee 364, 1993 **Guide for Nondestructive Evaluation Methods for Condition Assessment, Repair, and Performance Monitoring of Concrete Structures** International Concrete Repair Institute, 2009 **Report on Aging of Nuclear Power Plant Reinforced Concrete Structures** D. J. Naus, 1996 The Structural Aging Program provides the US Nuclear Regulatory Commission with potential structural safety issues and acceptance criteria for use in continued service assessments of nuclear power plant safety related concrete structures The program was organized under four task areas Program Management Materials Property Data

Base Structural Component Assessment Repair Technology and Quantitative Methodology for Continued Service Determinations Under these tasks over 90 papers and reports were prepared addressing pertinent aspects associated with aging management of nuclear power plant reinforced concrete structures Contained in this report is a summary of program results in the form of information related to longevity of nuclear power plant reinforced concrete structures a Structural Materials Information Center presenting data and information on the time variation of concrete materials under the influence of environmental stressors and aging factors in service inspection and condition assessments techniques repair materials and methods evaluation of nuclear power plant reinforced concrete structures and a reliability based methodology for current and future condition assessments Recommendations for future activities are also provided 308 refs 61 figs 50 tabs

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